

P05D00112-00

Renesas RZ/G2L

Front View



Features

- Powered by Renesas RZ/G2L SoC with dual-core Arm Cortex-A55 CPU
- Integrated Arm Mali-G31 3D graphics engine and H.264 video codec
- Interfaces include MIPI-CSI camera input, RGB/MIPI-DSI display outputs, USB 2.0, and Gigabit Ethernet
- Ideal for entry-level industrial HMIs and embedded devices with video capabilities

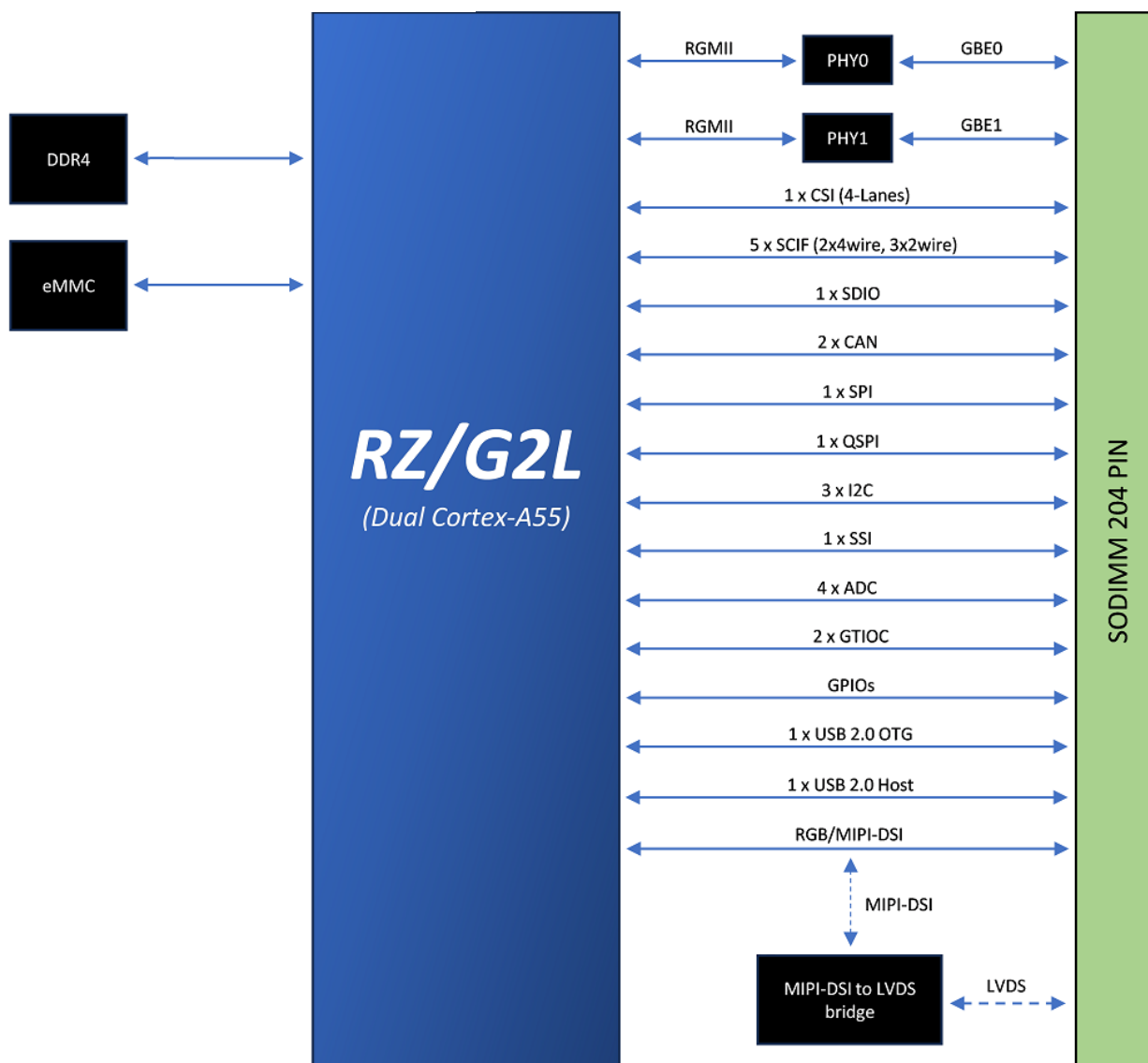
Specifications

Hardware			
CPU	RZ/G2L	Dual-Core ARM Cortex-A55 Single-Core ARM Cortex-M33	
GPU	ARM Mali-G31	OpenGL ES1.1/2.0/3.0/3.1/3.2, OpenCL 2.0	
Memory	On Board RAM	2GB DDR4	
	On Board Flash (Default Boot Device)	8GB eMMC Flash (Default Boot Device) 16MB Flash	
I/O	Display	1 × MIPI#1 DSI ^{*1} 1 × 24 bits Parallel RGB	1 × LVDS
	Camera	1 × MIPI CSI	
	USB	1 × USB 2.0 OTG 1 × USB 2.0 Host	
	Ethernet	2 × RGMII(10/100/1000 Mbps)	
	Default Peripheral (maximum)	5 × SCIF (SCIF2 for Debug Used) 3× I2C 1× SPI(up to 3) 1× SDIO 1 × QSPI 2× CAN	1 × SSI (up to 4) 4 × ADC (up to 8) 2 × GTIOC (up to 8) GPIOs

Note 1: MIPI#1 DSI could be alternated by BOM selection.

Software		
OS	Linux	Yocto

Block Diagram



Dimensions

